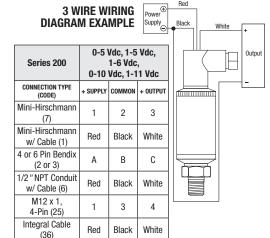


Load Limitations 4 mA to 20 mA Output Only

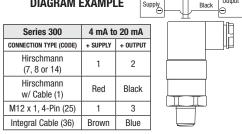
$Vmin = 10V + (.020 \times RL)$
RL = Rs + Rw
RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)
,

			· (0
	Series 100	4 mA to 20 mA	
	CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPU
	Mini-Hirschmann (7)	1	2
	Mini-Hirschmann w/ Cable (1)	Red	Black
	4 or 6 Pin Bendix (2 or 3)	Α	В
2 WIRE WIRING	1/2" NPT Conduit w/ Cable (6)	Red	Black
DIAGRAM	M12 x 1, 4-Pin (25)	1	3
EXAMPLE	Integral Cable (36)	Red	Black

Voltage output, 3 wire Wiring -Power Supply Mini-Hirschmann connector 3 -2 Output + Output Power + Supply Wiring M12 x 1 4-pin round connector + Output Common



2 WIRE WIRING DIAGRAM EXAMPLE



Load Limitations 4 mA to 20 mA Output Only

Vmin = 10V + (.020 x RL)

RL = Rs + Rw

4-Pin (25)

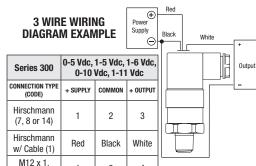
Integral Cable

Brown

RL = Loop Resistance (ohms)

Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)



Blue Black

2 WIRE WIRING DIAGRAM EXAMPLE Series 612/613 4 mA to 20 mA CONNECTION TYPE + SUPPLY + OUTPUT CASE GROUND Cable Red Black Shield

Load Limitations 4 mA to 20 mA Output Only

Vmin = $[10V + (.020 \times RL)] - 0.04354$ $\frac{\Omega}{FL}X$

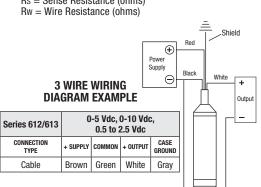
RL = Rs + Rw

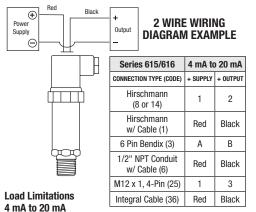
Output

cable length

\ 0 ,

RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms)





SERIES 615/616

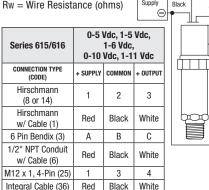
3 WIRE WIRING DIAGRAM EXAMPLE

RL = Loop Resistance (ohms)
Rs = Sense Resistance (ohms)
Rw = Wire Resistance (ohms)

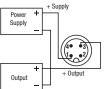
Output Only

RL = Rs + Rw

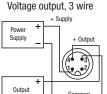
 $Vmin = 10V + (.020 \times RL)$



Current output, 2 wire + Supply Wiring - M12 x 1 4-pin round connector



Series 640	4 mA to	20 mA
CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPUT
M12 x 1, 4-Pin (25)	1	3
Integral Cable (1)	Brown	Blue



4 mA to 20 mA Output Only Vmin = 10V + (.020 x RL)

RL = Rs + Rw

Load Limitations

RL = Loop Resistance (ohms)

Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

 Series 640
 0-5 Vdc, 0-10 Vdc, 0-20 mA

 CONNECTION TYPE (CODE)
 + SUPPLY
 COMMON
 + OUTPUT

 M12 x 1, 4-Pin (25)
 1
 3
 4

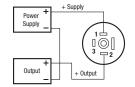
 Integral Cable (1)
 Brown
 Blue
 Black



SERIES 660 SERIES 800

Wiring - Mini-Hirschmann connector

Current output, 2 wire



Load Limitations

RL = Rs + Rw

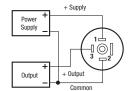
4 mA to 20 mA Output Only Vmin = 10V + (.020 x RL)

RL = Loop Resistance (ohms)

Rs = Sense Resistance (ohms)

Rw = Wire Resistance (ohms)

Voltage output, 3 wire

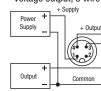


Series 660 4 mA to 20 mA + SUPPLY + OUTPUT CONNECTION TYPE (CODE) Mini-Hirschmann (7) Mini-Hirschmann w/ Cable (1) Red Black M12 x 1, 4-Pin (25) Integral Cable (36) Green Brown

Wiring - M12 x 1 4-pin round connector

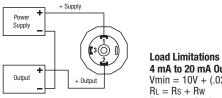
Current output, 2 wire Power + -Supply

Voltage output, 3 wire



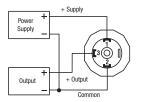
Series 660 1-5 Vdc, 0.1-10		Vdc	
CONNECTION TYPE (CODE)	+ SUPPLY	COMMON	+ OUTPUT
Mini-Hirschmann (7)	1	2	3
Mini-Hirschmann w/ Cable (1)	Red	Black	White
M12 x 1, 4-Pin (25)	1	3	4
Integral Cable (36)	Brown	Green	White

4 mA to 20 mA, 2 wire



4 mA to 20 mA Output Only Vmin = 10V + (.020 x RL)RL = Rs + Rw

RL = Loop Resistance (ohms) Rs = Sense Resistance (ohms) Rw = Wire Resistance (ohms)



0 Vdc to 10 Vdc. 3 wire

Series 800	4 mA to	20 mA	
CONNECTION TYPE (CODE)	+ SUPPLY	+ OUTPUT	
Hirschmann (8 or 14)	1	2	
Hirschmann w/ Cable (1)	Red	Black	
M12 x 1, 4-Pin (25)	1	3	

Series 800	0-10 Vdc		
CONNECTION TYPE (CODE)	+ SUPPLY	COMMON	+ OUTPUT
Hirschmann (8 or 14)	1	2	3
Hirschmann w/ Cable (1)	Red	Black	White
M12 x 1, 4-Pin (25)	1	3	4

Installation:

NOSHOK pressure transmitters/transducers may be mounted in any plane with negligible effect on performance. Although these units are designed and manufactured to withstand substantial shock and vibration, it is recommended that they be mounted in an area of minimal vibration. Always use a wrench on the wrench flats when installing. NEVER use a pipe wrench on the housing or in the area of the electrical connection.

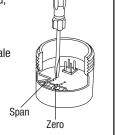
Maintenance/Calibration:

NOSHOK pressure transmitters/transducers require no maintenance. Recalibration is dependent on the users Quality Assurance Program. If no program is in place, NOSHOK recommends a 1 year cycle.

Alignment Procedure (applies only to 100, 200, 615/616, and 640 series):

Using a pressure source and meter with adequate accuracy, perform the following steps:

- Open sensor
- With no pressure applied, adjust the "Z" potentiometer for the correct Zero output
- Apply the correct full scale pressure to the unit
- Adjust the "S" potentiometer for the correct Span output



NOSHOK TRANSMITTERS TRANSDUCERS



Wiring Diagrams & Electrical **Connections for:**

100, 200, 300, 612, 613, 615/616, 640, 660, and 800 Series



CORPORATE HEADQUARTERS

1010 West Bagley Rd. • Berea, OH 44017 440.243.0888 • FAX 440.243.3472 F-mail: noshok@noshok.com Web: www.noshok.com

NWD 08-7